

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/748,998	12/30/2003	Udayan Dasgupta	TI-35831	8261	
23494 TEXAS INSTR	7590 06/19/200 RUMENTS INCORPO		EXAMINER		
P O BOX 655474, M/S 3999			PHU, PHUONG M		
DALLAS, TX	/5265		ART UNIT	PAPER NUMBER	
			. 2611		
				•	
			NOTIFICATION DATE	DELIVERY MODE	
		•	06/10/2007	EL ECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

uspto@ti.com uspto@dlemail.itg.ti.com

		Application No.	Applicant(s)				
Office Action Summary		10/748,998	DASGUPTA ET AL.				
		Examiner	Art Unit				
	<u> </u>	Phuong Phu	2611				
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet w	ith the correspondence address	-			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DONA IS IN THE MAILIN	ATE OF THIS COMMUNI 36(a). In no event, however, may a will apply and will expire SIX (6) MOI . cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communical BANDONED (35 U.S.C. § 133)				
Status							
1)	Responsive to communication(s) filed on 30 D	ecember 2003					
	This action is FINAL . 2b)⊠ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E						
Dispositi	ion of Claims						
4)🖂	Claim(s) 1-27 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
6)	Claim(s) is/are rejected.						
	Claim(s) is/are objected to.						
8)⊠	Claim(s) 1-27 are subject to restriction and/or of	election requirement.		*			
Applicati	ion Papers						
9)	The specification is objected to by the Examine	r.					
10)	The drawing(s) filed on is/are: a) acceptable	epted or b) Dobjected to	by the Examiner.				
	Applicant may not request that any objection to the						
4.65	Replacement drawing sheet(s) including the correct						
11)	The oath or declaration is objected to by the Ex	caminer. Note the attached	d Office Action or form PTO-152.				
Priority ι	ınder 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreign All b) Some * c) None of:	priority under 35 U.S.C. §	§ 119(a)-(d) or (f).				
	1. Certified copies of the priority documents	s have been received.					
	2. Certified copies of the priority documents		Application No				
	3. Copies of the certified copies of the prior	rity documents have been	received in this National Stage				
	application from the International Bureau	, ,,,					
* 5	See the attached detailed Office action for a list	of the certified copies not	received.				
Attachmen	t(s)						
1) Notice	te of References Cited (PTO-892)		Summary (PTO-413)				
	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Date informal Patent Application				
	r No(s)/Mail Date	6) Other:					

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

DETAILED ACTION

Election/Restrictions

1. This application contains claims directed to the following patentably distinct species:

-Species I: claims 1-9, 23 and 24, directed to method for computing distances between a received point and four points in a two-dimensional grid with a constellation representing a number of bits being an even value, illustrates by figures 7a;

Species II: claims 1-4 and 10-24, directed to method for computing distances between a received point and four points in a two-dimensional grid with a constellation representing a number of bits being an odd value greater than three, illustrates by figures 9a; and

Species III: claims 25-27, directed to method for computing distances between a received point and four points in a two-dimensional grid with a constellation representing a number of bits being equal to three, illustrates by figures 8a and 8b.

The species are independent or distinct because species I is applied for a constellation representing a number of bits being an even value, species II is applied for a constellation representing number of bits being an odd value greater than three; and species III is applied for a constellation representing number of bits being equal to three.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 1 is generic to claims 1-24.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable

Application/Control Number: 10/748,998

Art Unit: 2611

thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

2. A telephone call was made to Attorney Jim Brady on 05/29/07 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

3. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

Art Unit: 2611

currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Phu whose telephone number is 571-272-3009. The examiner can normally be reached on M-F (8:00 AM - 4:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

PHUONG PHU MARY EXAMINER

Phuong Phu 06/04/07 Phuong Phu Primary Examiner Art Unit 2611